



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.05/TSKR/CSR-02/1065e/CEMENT/2015-16

Date: 08.02.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
*AGENCY	:	Mr. T.S. Kothandaramu, Shree Chanran Constructions, #05, Bagath Enclave, Kattigenahalli, Yelahanka, Bangalore - 64.
*NAME OF THE WORK	:	Improvements to Drains & Culvers in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.
*REFERENCE	:	EE/BTP/BBMP/E-PMT/188/2015-16 Dated: 03.02.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	06.02.2016
PERIOD OF TESTING	:	06.02.2016 to 08.02.2016



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH .C
Quality Manager



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T-2377

Job No.: CTCE/BBMP/W.No.05/TSKR/CSR-02/1065e/SAND-Gradation/2015-16

: 08.02.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

* **Agency** : Mr.T.S. Kothandaramu,
Shree Chanran Constructions,
#05, Bagath Enclave, Kattigenahalli, Yelahanka, Bangalore – 64.

* **Name of Work** : Improvements to Drains & Culvers in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/188/2015-16 Dated: 03.02.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 06.02.2016

Date of Testing : 08.02.2016



Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.00	90-100	90-100	90-100	95-100
2.36	79.00	60-95	75-100	85-100	95-100
1.18	57.00	30-70	55-90	75-100	90-100
600 Micron	28.50	15-34	35-59	60-79	80-100
300 Micron	16.00	5-20	8-30	12-40	15-50
150 Micron	4.00	0-10	0-10	0-10	0-15

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Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.05/TSKR/CSR-02/1065e/AGG/GR/2015-16

: 08.02.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* **Customer** : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

* **Agency** : Mr. T.S. Kothandaraju,
Shree Chanran Constructions,
#05, Bagath Enclave, Kattigenahalli, Yelahanka, Bangalore – 64.

* **Name of Work** : Improvements to Drains & Culvers in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/188/2015-16 Dated: 03.02.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 06.02.2016

Date of Testing : 08.02.2016



Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.20	95-100	85-100
20	41.35	30-70	0-20
10	16.20	10-35	0-5
4.75	3.40	0-5	-

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Remarks : This sample is under Graded specific limits.

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Signature

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#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

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Job No.: CTCE/BBMP/W.No.05/TSKR /STEEL/2015-16

08.02.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : Mr. T.S. Kothandaraju,
Shree Chanran Constructions,
#05, Bagath Enclave, Kattigenahalli, Yelahanka,
Bangalore - 64.

Name of the Work : Improvements to Drains & Culvers in Ward No.05,
Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/188/2015-16 Dated:
03.02.2016

Date of Test : 08.02.2016

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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08.02.2016

TEST REPORT ON REINFORCEMENT STEEL

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Reference : EE/BTP/BBMP/E-PMT/188/2015-16 Dated:
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Date of Test : 08.02.2016

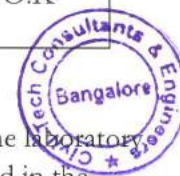
Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	515	558	13.35	O.K	O.K

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Job No.: CTCE/BBMP/W.No.05/TSKR/CSR-02/1065e/CUBE/2015-16

24.03.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

* Agency : Mr. T.S. Kothandaraju,
Shree Chanran Constructions,
#05, Bagath Enclave, Kattigenahalli, Yelahanka, Bangalore – 64.

* Name of the work : Improvements to Drains & Culvers in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.

* Reference : EE/BTP/BBMP/E-PMT/188/2015-16 Dated: 03.02.2016

* Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₁₅

Compressive Strength as on : 28th day

Sample Received on : 24.03.2016



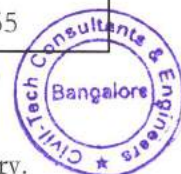
Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.02.2016	24.03.2016	8.180	355.5	15.80
2	25.02.2016	24.03.2016	8.230	363.5	16.16
3	25.02.2016	24.03.2016	8.372	372.3	16.55

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- * Reference : EE/BTP/BBMP/E-PMT/188/2015-16 Dated: 03.02.2016
- * Sample ID : Drain Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₁₅
- Compressive Strength as on : 28th day
- Sample Received on : 24.03.2016



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.02.2016	24.03.2016	8.152	480.3	21.35
2	25.02.2016	24.03.2016	8.235	490.3	21.79
3	25.02.2016	24.03.2016	8.390	510.2	22.68

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* Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₁₅

Compressive Strength as on : 28th day

Sample Received on : 24.03.2016

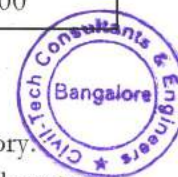


Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.02.2016	24.03.2016	8.115	362.5	16.11
2	25.02.2016	24.03.2016	8.286	370.2	16.45
3	25.02.2016	24.03.2016	8.347	382.5	17.00

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₁₅

Compressive Strength as on : 28th day

Sample Received on : 24.03.2016



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.02.2016	24.03.2016	8.165	478.8	21.28
2	25.02.2016	24.03.2016	8.268	510.6	22.69
3	25.02.2016	24.03.2016	8.314	520.1	23.12

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference : EE/BTP/BBMP/E-PMT/188/2015-16 Dated: 03.02.2016

* Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 29.03.2016



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	01.03.2016	29.03.2016	8.125	475.5	21.13
2	01.03.2016	29.03.2016	8.265	482.2	21.43
3	01.03.2016	29.03.2016	8.332	495.3	22.01

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* Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 29.03.2016

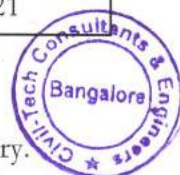


Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	01.03.2016	29.03.2016	8.136	479.3	21.30
2	01.03.2016	29.03.2016	8.254	510.2	22.68
3	01.03.2016	29.03.2016	8.366	522.3	23.21

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- * Grade of Concrete : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 29.03.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	01.03.2016	29.03.2016	8.098	482.5	21.44
2	01.03.2016	29.03.2016	8.178	495.3	22.01
3	01.03.2016	29.03.2016	8.290	515.3	22.90

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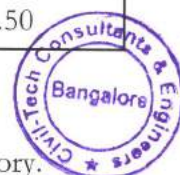
Sample Received on : 29.03.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	01.03.2016	29.03.2016	8.116	479.3	21.30
2	01.03.2016	29.03.2016	8.239	516.7	22.96
3	01.03.2016	29.03.2016	8.332	528.7	23.50

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#05, Bagath Enclave, Kattigenahalli, Yelahanka, Bangalore – 64.
- * Name of the work : Improvements to Drains & Culvers in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.
- * Reference : EE/BTP/BBMP/E-PMT/188/2015-16 Dated: 03.02.2016
- * Sample ID : Drain Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 29.03.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	01.03.2016	29.03.2016	8.120	480.3	21.35
2	01.03.2016	29.03.2016	8.265	490.5	21.80
3	01.03.2016	29.03.2016	8.390	512.4	22.77

* Information is furnished by the Customer/Representative

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

VISHWANATH .C
Quality Manager



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.05/TSKR/CSR-02/1065e/CUBE/2015-16

01.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
- * Agency : Mr. T.S. Kothandaraju,
Shree Chanran Constructions,
#05, Bagath Enclave, Kattigenahalli, Yelahanka, Bangalore - 64.
- * Name of the work : Improvements to Drains & Culvers in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.
- * Reference : EE/BTP/BBMP/E-PMT/188/2015-16 Dated: 03.02.2016
- * Sample ID : Covering Slab Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 01.04.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	04.03.2016	01.04.2016	8.160	475.5	21.13
2	04.03.2016	01.04.2016	8.288	509.6	22.65
3	04.03.2016	01.04.2016	8.356	526.4	23.40

* Information is furnished by the Customer/Representative

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VISHWANATH .C
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#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

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